

# Missouri Recycling Association

## Strive for 75%

- 2013 Progress Report
  - Accomplishments since passage of Senate Bill 530
  - Continuing the investment updating the 40% goal to 75%
- Missouri must step forward and practice responsible materials management...
  - Better manage valuable commodities
  - Develop markets
  - Create jobs
  - Protect, expand and improve current recycling infrastructure



# Phase I- Building Awareness

- Website
- Strive for 75% Pledge
- Banners
- Marketing Kits
- Billboards
- Promoted at State Fair
- Promoted at Annual Conference
- Strive for 75% Recycling Guide
- Promoted at Annual Conference

## 2016 St. Louis- “Gateway to 75%”



Thanks to funding from Region L, F and M!



## Phase II- “Drive for 75”

- Research and highlight successful programs with a focus on five targeted waste streams:
  - E-Scrap
  - Construction and Demolition Waste
  - Paint
  - Organics
  - Textiles

# E-Scrap

## The Growing Waste Stream

*What could weigh as much as 11 Great Pyramids of Giza in 2017?*

**A: The estimated amount of e-waste generated worldwide that year.**

## Strive for 75%

- E-Scrap Legislation
  - Updates at MORA Membership Forum!
- Producer responsibility
- Resources and technical assistance to properly manage e-scrap
  - E-cycle Missouri
  - State Electronics Challenge



# Construction and Demolition Wastes

- One of the largest components of the solid waste stream
- Steel and metals- commonly recycled (rebates)
- Other materials- concrete, wood, gypsum drywall and asphalt shingles benefits:
  - Job creation
  - Environmental protection
  - Smarter use of natural resources
  - Energy savings
  - Reduction in greenhouse gas emissions

# Construction and Demolition Wastes

## Markets for C&D

- Concrete- construction stone, road base
- Asphalt paving- hot mix asphalt pavement
- Asphalt shingles- hot mix asphalt pavement
- Wood- fuel, mulch
- Drywall- new drywall, land application as gypsum
- Fines- fill material and landfill cover

## Strive for 75%

- Identify statewide infrastructure for C&D\*\*
- Build partnerships with USGBC, HBA, Asphalt Paver Association
- Connect generators with resources
- Emphasis on reuse
  - Habitat for Humanity Restores
  - Deconstruction Services

# Identify Existing Infrastructure for C&D Waste

District	C&D SITES / Recycling Facilities	County	Operated by
	Private Business Recycling C&D		
L	Hansen's Environmental	St Charles	Private
L	Inc. Environmental	St Charles	Private
L	LED R C&D Recycling	St Charles	Private
L	Second Chance Materials	St Charles	Private
L	Eco Recycling	St Louis	Private
L	Midwest Shingle Recycling	St Louis	Private
L	Flooring Systems Inc.	St Louis	Private
L	NB West Construction		Private
L	Foam Products Corporation	St Louis	Private
L	CLEAR Carpet Recycling	St Louis	Private
L	CLEAR Carpet Recycling	St Louis	Private
L	NB West Construction		Private
	Habitat for Humanity		
L	Desoto HFH ReStore	Jefferson	HFH
L	Jefferson County, MO HFH ReStore	Jefferson	HFH
L	Habitat for Humanities St Peters	St Charles	HFH
L	Habitat for Humanities St Louis	St Louis	HFH
L	St. Louis ReStore-Des Peres, HFH	St Louis	HFH
	Locations accepting C&D for disposal -not recycled		
L	Milam Landfill	St Louis	
L	Fred Weber Landfill Champ-	St Louis	IESI
L	Rock Hill Demolition Landfill	St Louis	Quarries
L	Patzu Wrecking Landfill	St Louis	
L	Peerless Resource Recovery	St Louis	Sold
L	St Louis Transfer Station -South	Jefferson	Waste Mgt

Clean Untreated Lumber  
 Treated/Painted Wood  
 Pallets  
 New Dry Wall  
 Painted Dry Wall  
 Metals – Ferrous Steel  
 Metals – Nonferrous  
 Masonry Brick/Concrete  
 Asphalt  
 Rock  
 Dirt  
 Asphalt Shingles  
 Carpeting & Pads  
 Rigid Plastics  
 Pipe/PVC  
 Shrink Wrap/Film  
 Foam Insulation/Roofing Foam  
 Vinyl Siding  
 Paper/Cardboard  
 Appliances  
 Fixtures  
 Cabinets  
 Green Waste-stumps, Logs, etc.

# Paint

- In Missouri, households generate ~ 1.88 million gal. of waste paint each year
- Paint recycling and disposal is the number one cost at household hazardous waste collections
- A paint stewardship program:
  - reduce the generation of postconsumer paint
  - promote reuse
  - provide a system for recycling and proper disposal at a reduced cost for each organization.

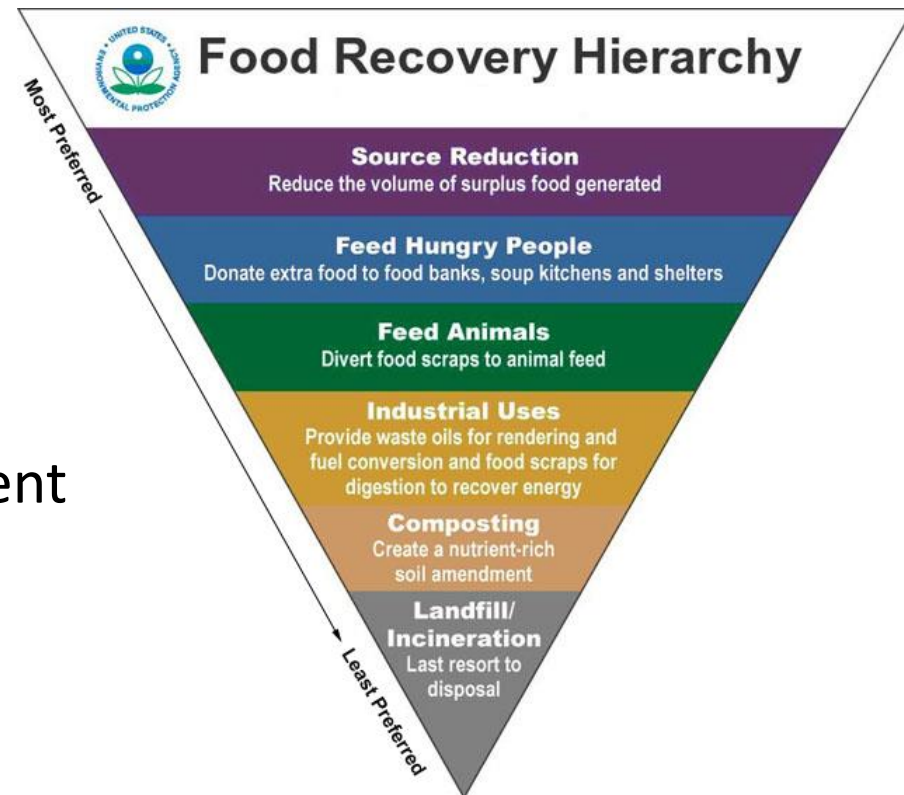




# Organics

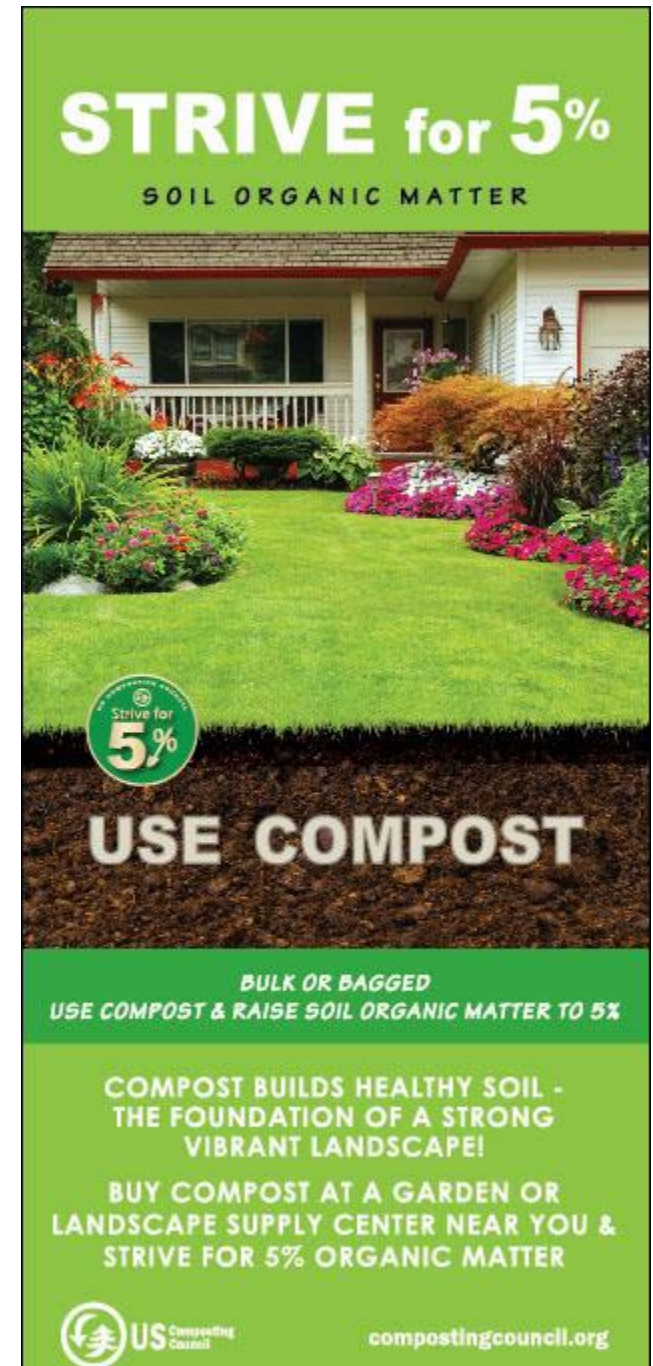
## Food Waste

- Department of Agriculture set a National Food Waste Reduction Goal of 50%
- EPA- Food Recovery Challenge
  - pledge to improve their sustainable food management practices and report their results
- EPA- Food Too Good to Waste



# Organics-Composting

- Identify statewide composting infrastructure
- Protect and sustain yard waste ban
- Work with COAM to support and grow the composting industry
- Promote benefits of using compost



# Identifying Statewide Composting Infrastructure

District	Facility
	Organics - Composting in Region L
L	CECOS LANE WOOD RECYCLING / Hansen's Tree Service
L	Babe's
L	Allied Tree Surgeons
L	Bonacker Farms Inc
L	FT BELLEFONTAINE COMPOST
L	Hansen's Environmental Wood Resources
L	Hansen's Tree Service
L	City of St Peters Earthcentre
L	City of Wentzville
L	Fick Supply Service
L	Vermeer Midwest
L	Springdale Wood Recycling Facility
L	St Louis Composting - Ft Bellefontaine
L	St Louis Composting - Mayland Heights
L	Earth City Supply
L	St Louis Composting - Pacific
L	St Louis Composting - Valley Park
L	Missouri Botanical Gardens
L	City of Ladue Compost Yard (Edie's Mulch Site)
L	University City Compost Site (Heman Park)
L	St Louis Composting - Hall Street
L	City of Chesterfield

Questions asked:

Currently Accepting Materials?

Separated Loads

Mixed Loads

Fees

Yard Waste

Leaves

Brush/Branches

Trees/Logs

Christmas Trees

Food Waste

Drop-Off

Curbside Collection

Dead Animals

Animal Manure

Pallet

Sell Woodchips or Give-a-way

Sell Compost or Give-a-way

Cost

Sell Soil or Gravel

# Textiles

- In Missouri,
  - over 420 million pounds of textiles are discarded each year
  - only about 15% are recovered for recycling or reuse
- Almost 100 percent of household textiles and clothing can be recycled, regardless of quality or condition

# Textiles

- Extending the life of clothes by 9 months reduces carbon, water and waste footprints by around 20-30% each
- Textile recycling account for more Greenhouse Gas savings than paper, plastics and glass combined.



## Markets

- Reuse
- Recycling
  - carpet padding
  - mattresses and upholstery
  - wiping rags
  - insulation and sound-proofing
  - rugs and blankets

# Next Steps

- Compile resources on 5 target materials
- Draft a strategic plan and educational materials
- Stress the importance of education programs for existing programs/commonly recycled items. Always room for improvement.
- Hold stakeholder meetings

# Next Steps

## – ***WE CAN'T MANAGE WHAT WE DON'T TRACK***

Quantify material availability for market and infrastructure development

Resource planning and responsible materials management.

Stress the need to identify recycling industry-associated job creation.

Find ways (other than tonnage) to quantify results more than tons recycled.

So much more to this industry.



# Next Steps

## – ***WE CAN'T MANAGE WHAT WE DON'T TRACK***

Quantify material availability for market and infrastructure development

Resource planning and responsible materials management.

Stress the need to identify recycling industry-associated job creation.

Find ways (other than tonnage) to quantify results. Such a bigger story to tell about the impact of the recycling industry to Missouri.

# Closing Thoughts...

- ***WE CAN'T MANAGE WHAT WE DON'T TRACK***
  - ***RESPONSIBLE MATERIALS MANAGEMENT***
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